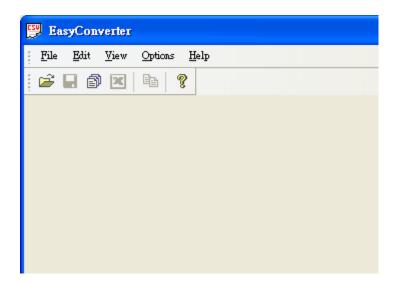
Appendix 7 EasyConverter

This application program is use to when the history record of data sampling (dtl) or event log (evt) upload to PC, which can transfer to Excel (csv).

1. Introduction

From Project Manager to click the "**EasyConverter**" will pop up the application program.



There are three functions introduce as follows:

Export to Excel

Scaling function

Multi-File Conversion

2. Setting of EasyConverter

How to export to Excel

When open the file, it will pop up setting dialog as follow:

| Choose Your Time Format 🛛 🔀 | | | | | |
|--|--|--|--|--|--|
| Display Milliseconds | | | | | |
| No millisecond information | | | | | |
| Separated by a COMMA sign | | | | | |
| Separated by a DOT sign | | | | | |
| O Parenthesized | | | | | |
| Ex: HH:MM:SS | | | | | |
| Don't ask me again. | | | | | |
| OK | | | | | |

There are four options that time format of data can be selected.

| No millisecond information | Ex: HH:MM:SS |
|----------------------------|-------------------|
| Separated by a COMMA sign | Ex: HH:MM:SS,### |
| Separated by a DOT sign | Ex: HH:MM:SS.### |
| Parenthesized | Ex: HH:MM:SS(###) |

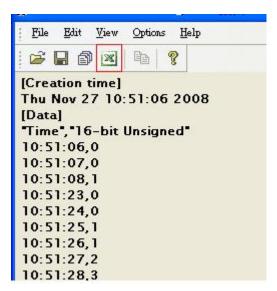
If check "Don't ask me again", the pop up window will not appear again.

If need to modify the time format, please go to Options / Time Format to call up the setting dialog.

After setting, click OK. And pop up next setting dialog, as follow:

| 1 16-bit Unsigned 16-bit Unsigne 1 0 No Scaling & Offset N/A | No | Name | Туре | Word Size | Digits | Scalir |
|---|----------|-----------------|-------------|-----------|--------|--------|
| -Scaling & Offset | 1 | 16-bit Unsigned | | | | |
| -Scaling & Offset | | | | | | |
| -Scaling & Offset | | | | | | |
| -Scaling & Offset | | | | | | |
| -Scaling & Offset | | | | | | |
| -Scaling & Offset | | | | | | |
| | < | | | | | |
| | | | | | |) ; |
| | Sc | aling & Offset | <u>, 10</u> | | _ |)) |
| | Sc | aling & Offset | <u></u> | | _ | |
| | Sc | aling & Offset | | | _ | |
| | Sc N/ | aling & Offset | | | | |

Click OK,



Click Export to Microsoft Excel.

| | A | В | С |
|-----|-------------|----------------|-------|
| 1 | [Creation t | ime] | |
| 2 | Thu Nov 2 | 27 10:51:06 20 | 008 |
| 3 | [Data] | | |
| 4 | "Time" | "16-bit Unsig | gned" |
| 5 | 10:51:06 | 0 | |
| 6 | 10:51:07 | 0 | |
| 7 | 10:51:08 | 1 | |
| 8 | 10:51:23 | 0 | |
| 9 | 10:51:24 | 0 | |
| 10 | 10:51:25 | 1 | |
| 11 | 10:51:26 | 1 | |
| 12 | 10:51:27 | 2 | |
| 13 | 10:51:28 | 3 | |
| 14 | 10:51:29 | 3 | |
| 1.5 | 10.51.00 | | |

User can check the data in Excel.

How to use Scaling function

The **Scaling** is use to offset data.

| amp | ling Data Info | rmation | | | | X |
|------|-------------------|--------------------|----------|-------|-----------|-----|
| Sele | ct number of digi | ts after decimal p | ioint: | | 1 | 1 |
| No | Name | Туре | Nord Siz | Digit | Scal | ing |
| 1 | 16-bit Unsigned | 16-bit Unsigned | 1 | 0 | No | * |
| | | | | | No Yes | |

new value = { {value+A}xB}+C, user can setting a value on A, B, and C.

Why need the Scaling function?

For example, here is a data of voltage and data format is 16-bit unsigned, its value range is 0~4096.

User want to mapping those data to -5 to +5 volt.

new value = $\{\{value+0\}x0.0024\}+(-5), as follow:$

| S | amp | ling Data Info | rmation | | | Þ | K |
|---|------|-------------------|----------------|------------|--------|---------|---|
| : | Sele | ct number of digi | ts after decin | nal point: | | | |
| | No | Name | Туре | Word Size | Digits | Scaling | |
| | 1 | 16-bit Unsigned | 16-bit Unsi; | 1 | 3 | Yes 💌 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ' | | | _ | _ | _ | _ | |
| | -Sc | aling & Offset | | | | | 1 |
| | | A | В | | С | | |
| | | 0.0000 | 0.002 | 4 | -5.000 | 00 | |
| | ne | w value = ((valu | ⊫e+A)xB) | + | | | |
| | | = (value | x 0.0024) + | -5.0000 | | | |
| l | _ | | | | | |] |
| | Loa | d Setting | | | | | |
| | Sav | e Setting | ſ | OK | | Cancel | |
| | _ | | | | | | · |

Above sampling data of setting can save it and be loaded on next time.

After the scaling,

Original file

After use scaling function file

| 🕎 K:\1\20081203.dtl - EasyConverter | 👺 K:\1\20081203.dtl - EasyConverter |
|---|--|
| <u>File Edit View Options H</u> elp | <u>File Edit View Options H</u> elp |
| 🖻 🖬 🗃 💌 🖻 🦹 | 🖻 🖬 🗊 💌 🕒 🤶 |
| [Creation time] Wed Dec 03 08:47:15 2008 [Data] "Time", "16-bit Unsigned" 08:47:16 0.000 08:47:17 300.000 08:47:18 600.000 08:47:20 1200.000 08:47:20 1200.000 08:47:21 1500.000 08:47:22 1800.000 08:47:23 2100.000 08:47:23 2100.000 08:47:25 2700.000 08:47:26 3000.000 08:47:27 3300.000 08:47:28 3600.000 08:47:29 3900.000 08:47:30 4096.000 08:47:31 3796.000 08:47:32 3496.000 08:47:33 3196.000 08:47:35 2596.000 08:47:36 2296.000 | [Creation time] Wed Dec 03 08:47:15 2008 [Data] "Time", "16-bit Unsigned" 08:47:16, -5.000 08:47:17, -4.268 08:47:18, -3.536 08:47:19, -2.804 08:47:20, -2.072 08:47:21, -1.340 08:47:22, -0.608 08:47:23, 0.124 08:47:24, 0.856 08:47:25, 1.588 08:47:26, 2.320 08:47:26, 2.320 08:47:27, 3.052 08:47:28, 3.784 08:47:29, 4.516 08:47:30, 4.994 08:47:31, 4.262 08:47:32, 3.530 08:47:34, 2.066 08:47:35, 1.334 08:47:36, 0.602 |

How to use Multi-File Conversion

Step1. Click the File / Multi-File will pop up the setting dialog.

Step2. Click "Add File..." to combine to Excel.

| Multi-File | × |
|--|---|
| Convert file list: C:\EB8000\eng1.34\datalog\123\20081127.dtl C:\EB8000\eng1.34\datalog\trend\20081128.dtl | |
| Add File Delete File |) |
| Combine to a file | 1 |
| C:\Documents and Settings\user\test.xls OK Cancel |] |

Step3. After adding files, check the "**Combine to a file**" then export those files to a Excel file (xls).

| | А | В | С |
|----|--------------------------|-------------------|---|
| 1 | [Creation time] | | |
| E | Thu Nov 27 10:51:06 2008 | > | |
| 3 | [Data] | | |
| 4 | "Time" | "16-bit Unsigned" | |
| 5 | 10:51:06 | 0 | |
| 6 | 10:51:07 | 0 | |
| 7 | 10:51:08 | 1 | |
| 8 | 10:51:23 | 0 | |
| 9 | 10:51:24 | 0 | |
| 10 | 10:51:25 | 1 | |
| 11 | [Creation time] | | |
| 12 | Fri Nov 28 17:05:09 2008 | • | |
| 13 | [Data] | | |
| 14 | "Time" | "16-bit Unsigned" | |
| 15 | 17:05:09 | 0 | |
| 16 | 17:05:10 | 0 | |
| 17 | 17:05:11 | 0 | |
| 18 | 17:05:12 | 0 | |
| 19 | 17:05:13 | 0 | |

Note: If don't check this function, the files will be export to Excel individual.



Enable Setting file

User can loading the saved Setting file to use in the new data log file and combination file also.

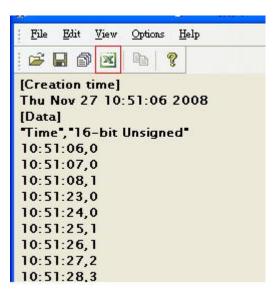
Step 1.Saving the setting to a *.lgs after filling in the value in scaling & offset.

| No | Name | Туре | Word Size | Digits | Scale | ing |
|----|-----------|-----------------|-----------|-------------|-------|-----|
| 1 | 1 | 16-bit Unsigned | 1 | 0 | Yes | - |
| 2 | 2 | 16-bit Unsigned | 1 | 0 | No | - |
| 3 | 3 | 16-bit Unsigned | 1 | 0 | No | • |
| Sc | aling & (|)ffset | | | | |
| Sc | A | . E | | С | |] |
| Sc | | 1 E | | C 2.0000 |) | |

Step2. In new data sampling, click "Load Setting" and select *.lgs for use the same setting as usual.

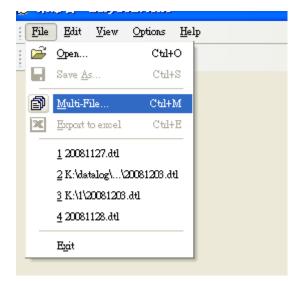
| No | Name | Туре | Word Size | Digits | Scal | ing |
|----------|-----------------|-----------------|-----------|--------|------|-----|
| 1 | 1 | 16-bit Unsigned | 1 | 0 | No | - |
| 2 | 2 | 16-bit Unsigned | 1 | 0 | No | - |
| 3 | 3 | 16-bit Unsigned | 1 | 0 | No | • |
| -Sc | aling & (| 1ffset | | | | |
| Sc N/ | aling & C 'A |)ffset ———— | | | | |

Step3. Press "Export to Microsoft Excel" to check the data.



For combination and Enable setting file

Step1. Click Multi-File



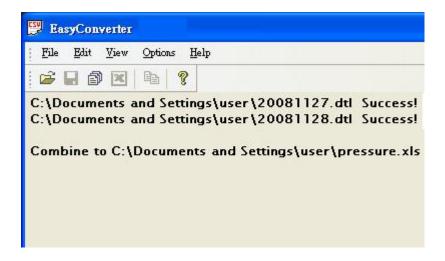
Step2. Select "Add File..."

| Add File Delete File |
|----------------------|
| |
| |
| Cancel |
| |

Step3. Select the files which would like to combine and check "Enable Setting file" and "Combine to a file" box. In the "Combine to a file", please indicate a file name for new combined file.

| dulti-File | E |
|--|----------------------|
| Convert file list: | |
| C:\Documents and Settings\user\20081127.dtl C:\Documents and Settings\user\20081128.dtl | |
| | |
| | |
| | Add File Delete File |
| Enable Setting file | Add File Delete File |
| 0.5000001.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | Add File Delete File |
| C:\EB8000\datalog\pressure\1.lgs | |
| C:\EB8000\datalog\pressure\1.lgs | |

Step4. After press OK, the data will display on the dialog.



Step5. Open the new combined file to check the data in Microsoft Excel.